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TI Articles of .beta.-alumina
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DT Patent

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PI DE--2540119	A1	19760325	1975DE-2540119	19750909
FR--2284579	A1	19760409	1974FR-0031218	19740916
FR--2284579	B1	19781229		
BE--832603	A1	19760223	1975BE-1006840	19750821
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PRAI 1974FR-0031218 19740916

AB Shaped articles of .beta.-alumina, which does not contain the allotropic .beta. form, are prepd. from intimate mixts. of .alpha.- or .gamma.-alumina and 2 powd. alk. metal compds., one a fluoride and the other an aluminate or carbonate, by firing at 1550-1800.degree. for 2-10 min (at higher temps. for shorter firing periods). Thus, a mixt. of .alpha.-Al₂O₃ 33.95, Na₂CO₃ 5.45, and cryolite 0.6 g is shaped into plates and fired 7 min at 1605.degree.. The product is pure .beta.-alumina and may be used in Na-S-type electrochem. generators.

IT 1344-28-1, reactions
(with alkali metal aluminates and carbonates and fluorides, for nonallotropic sodium aluminate)

IT 497-19-8, reactions
(with alumina and cryolite, for nonallotropic sodium aluminate)